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GAU 1714

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of the claims in the application:

Listing of Claims:

- 1. (Currently Amended) A water-based adhesive composition, comprising an admixture of:
 - A. about 5 to about 80 wt% of an aqueous <u>sulfonated</u> polyester polyurethane dispersion, that is the reaction product of (1) the condensation product of 1,4-butanediol or 1,2-ethanediol and <u>adipic sulfonic</u> acid, and (2) a diisocyanate compound selected from the group consisting of hexamethylene diisocyanate, isophorone diisocyanate, and combinations thereof; and
 - B. about 95 to about 20 wt% of an aqueous aliphatic polyurethane dispersion.
- 2. (Currently Amended) The water-based adhesive composition of claim 1, wherein said aqueous <u>sulfonated</u> polyester polyurethane dispersion comprises from about 15 to about 25 wt% of said admixture, based on the total weight of said composition.
- 3. (Currently Amended) The water-based adhesive composition of claim 1, wherein said aqueous <u>sulfonated</u> polyester polyurethane dispersion comprises from about 17 to about 23 wt% of said admixture, based on the total weight of said composition.

- 4. (Original) The water-based adhesive composition of claim 1, wherein said aqueous aliphatic polyurethane dispersion comprises from about 85 to about 75 wt% of said admixture, based on the total weight of said composition.
- 5. (Original) The water-based adhesive composition of claim 1, wherein said aqueous aliphatic polyurethane dispersion comprises from about 83 to about 78 wt% of said admixture, based on the total weight of said composition.
- 6. (Original) The water-based adhesive composition of claim 1, further comprising about 0.005 to about 2 wt% of one or more additives selected from the group consisting of film-forming agents, slip agents, flow agents, adhesion promotors tackifiers, surfactants, defoamers, decorative components, and combinations thereof.
- 7. (Original) The water-based adhesive composition of claim 6, wherein said adhesion promotor is an epoxylated silane adhesion promotor.
- 8. (Original) The water-based adhesive composition of claim 7, wherein said epoxylated silane adhesion promotor is γ -glycidoxypropyltrimethoxysilane.
- 9. (Original) The water-based adhesive composition of claim 1, further comprising from about 0.5 wt% to about 25 wt% of a solvent.
- 10. (Original) The water-based adhesive composition of claim 9, wherein said solvent is selected from the group consisting

of water, N-methylpyrrolidone, butylcarbitol, 2-butoxyethanol, 2,2-butoxyethanol, and combinations thereof.

- 11. (Currently Amended) A water-based adhesive composition, comprising an admixture of:
 - A. about 17.5 to about 22.5 wt% of an aqueous sulfonated polyester polyurethane dispersion, that is the reaction product of (1) the condensation product of 1,4-butanediol or 1,2-ethanediol and adipic sulfonic acid, and (2) a diisocyanate compound selected from the group consisting of hexamethylene diisocyanate, isophorone diisocyanate, and combinations thereof;
 - B. about 82.5 to about 77.5 wt% of an aqueous aliphatic polyurethane dispersion;
 - C. about 0.005 to about 2 wt% of one or more additives selected from the group consisting of film-forming agents, adhesion promotors, tackifiers, surfactants, defoamers, decorative components, and combinations thereof; and
 - D. about 0.5 to about 25 wt% of a solvent selected from the group consisting of water, N-methylpyrrolidone, butylcarbitol, 2-butoxyethanol, 2,2-butoxyethoxyethanol, and combinations thereof.
- 12. (Original) The water-based adhesive composition of claim 11, wherein said adhesion promotor is an epoxylated silane adhesion promotor agent.

13. (Original) The water-based adhesive composition of claim 12, wherein said epoxylated silane adhesion promotor is γ -glycidoxypropyltrimethoxysilane.

- 14. (Currently Amended) A method of adhering a workpiece to a substrate, comprising the steps of:
 - A. applying a water-based adhesive composition to a substrate, said water-based adhesive composition comprising an admixture of:
 - 1. about 17.5 to about 22.5 wt% of an aqueous sulfonated polyester polyurethane dispersion;
 - 2. about 82.5 to about 77.5 wt% of an aqueous aliphatic polyurethane dispersion;
 - 3. about 0.005 to about 2 wt% of one or more additives selected from the group consisting of film-forming agents, adhesion promotors, tackifiers, surfactants, decorative components, defoamers, and combinations thereof; and
 - 4. about 0.5 to about 25 wt% of a solvent selected from the group consisting of water, N-methylpyrrolidone, butylcarbitol, 2-butoxyethanol, 2,2-butoxyethoxyethanol, and combinations thereof;
 - B. curing said water-based adhesive onto said substrate; and
 - C. adhering said workpiece onto said substrate.
- 15. (Original) The method of claim 14, wherein said adhesion promotor is an epoxylated silane adhesion promotor.

16. (Original) The method of claim 14, wherein said epoxylated silane adhesion promotor is γ -glycidoxypropyltrimethoxysilane.

- 17. (Original) The method of claim 14, wherein said applying step is accomplished by draw down rod, doctor blading, gravure roll, spraying, or dipping.
- 18. (Original) The method of claim 14, wherein said curing step occurs at between 200 and 500°F for between 2 and 50 seconds.
- 19. (Original) The method of claim 14, wherein said adhering step comprises pressing said substrate and said workpiece together at about 100 psi for approximately 5-60 seconds.
- 20. (Original) The method of claim 14, wherein said substrate is selected from the group consisting of stainless steel, aluminum, copper, iron, cold rolled steel, phosphatized steel, primer-coated steel, polyester reinforced fiber glass, butyrates, PVC, ABS, injection molded urethanes, polystyrenes, polyimides, polyamides, and combinations thereof.
- 21. (Original) A water-based adhesive composition, comprising an admixture of:
 - A. about 5 to about 80 wt% of an aqueous <u>sulfonated</u> polyester polyurethane dispersion, that is the reaction product of (1) the condensation product of 1,4-butanediol or 1,2-ethanediol and adipic sulfonated

acid, and (2) a diisocyanate compound selected from the group consisting of hexamethylene diisocyanate, isophorone diisocyanate, and combinations thereof;

- B. about 95 to about 20 wt% of an aqueous aliphatic polyurethane dispersion; and
- C. about 0.005 to about 2 wt% of an epoxylated silane adhesion promotor.
- 22. (Currently Amended) The water-based adhesive composition of claim 21, wherein said aqueous <u>sulfonated</u> polyester polyurethane dispersion comprises from about 15 to about 25 wt% of said admixture, based on the total weight of said composition.
- 23. (Original) The water-based adhesive composition of claim 21, wherein said aqueous aliphatic polyurethane dispersion comprises from about 85 to about 75 wt% of said admixture, based on the total weight of said composition.
- 24. (Original) The water-based adhesive composition of claim 21, wherein said epoxylated silane adhesion promotor is γ -glycidoxypropyltrimethoxysilane.
- 25. (Original) The water-based adhesive composition of claim 21, further comprising about 0.5 to about 25 wt% of a solvent selected from the group consisting of water, N-methylpyrrolidone, butylcarbitol, 2-butoxyethanol, 2,2-butoxyethoxyethanol, and combinations thereof.